

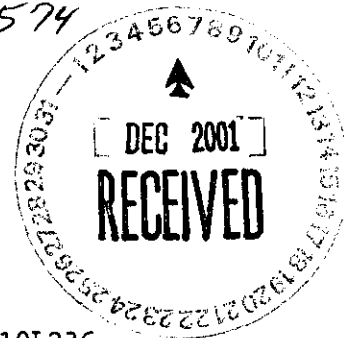
RECEIVED
JUN 10 2002

EDMC

0057264

H1574

Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TNUHANFORD B99-093 H1574



DATE RECEIVED: 10/31/01

LVL LOT # :0110L236

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
---------------------	-------	-----	--------	------------	-----------	----------

B13CB8

% MOISTURE	001	S	01L*S155	10/29/01	11/09/01	11/12/01
% SOLIDS	001	S	01L*S155	10/29/01	11/09/01	11/12/01
% SOLIDS	001 REP	S	01L*S155	10/29/01	11/09/01	11/12/01

B13CB9

% MOISTURE	002	S	01L*S155	10/29/01	11/09/01	11/12/01
% SOLIDS	002	S	01L*S155	10/29/01	11/09/01	11/12/01

B13CC0

% MOISTURE	003	S	01L*S155	10/29/01	11/09/01	11/12/01
% SOLIDS	003	S	01L*S155	10/29/01	11/09/01	11/12/01

B13CC1

% MOISTURE	004	S	01L*S155	10/29/01	11/09/01	11/12/01
% SOLIDS	004	S	01L*S155	10/29/01	11/09/01	11/12/01

B13CC2

% MOISTURE	005	S	01L*S155	10/29/01	11/09/01	11/12/01
% SOLIDS	005	S	01L*S155	10/29/01	11/09/01	11/12/01

B13CC3

% MOISTURE	006	S	01L*S155	10/29/01	11/09/01	11/12/01
% SOLIDS	006	S	01L*S155	10/29/01	11/09/01	11/12/01



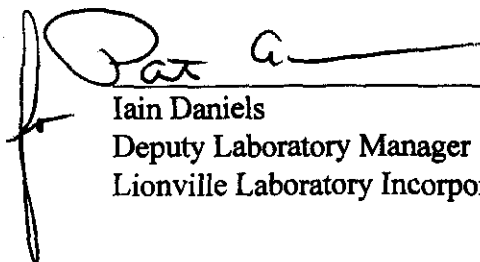
Analytical Report

Client: TNU-HANFORD B99-093 H1574
LVL#: 0110L236

W.O.#: 11343-606-001-9999-00
Date Received: 10-31-01

INORGANIC NARRATIVE

1. This narrative covers the analyses of 6 soil samples.
2. The samples were prepared and analyzed in accordance with the method checked on the attached glossary.
3. Sample holding times as required by the method and/or contract were met.
4. The cooler temperature was recorded on the chain of custody.
5. The replicate analysis was within the 20% Relative Percent Difference (RPD) control limit.
6. I certify that this sample data package is in compliance with SOW requirements, both technically and for completeness, other than the conditions detailed above. Release of the data contained in this hard copy package has been authorized by the Laboratory Manager or a designee, as verified by the following signature.


Iain Daniels
Deputy Laboratory Manager
Lionville Laboratory Incorporated

njpv10-236

11-13-01
Date

The results presented in this report relate to the analytical testing and conditions of the samples upon receipt and during storage. All pages of this report are integral parts of the analytical data. Therefore, this report should only be reproduced in its entirety of 10 pages.

Lionville Laboratory Incorporated

WET CHEMISTRY

METHODS GLOSSARY FOR SOIL/SOLIDS SAMPLE ANALYSIS

	<u>ASTM</u>	<u>SW846</u>	<u>OTHER</u>
% Ash	— D2216-80		
% Moisture	— ✓ D2216-80		— ILMO4.0 (e)
% Solids	— ✓ D2216-80		— ILMO4.0 (e)
% Volatile Solids	— D2216-80		
ASTM Extraction in Water	— D3987-81/85		
BTU	— D240-87		
CEC		— 9081	— c
Chromium VI		— 3060A/7196A	
Corrosivity ___ by coupon ___ by pH		— 1110(mod) ___ 9045C	
Cyanide, Total		— 9010B	— ILMO4.0 (e)
Cyanide, Reactive		— Section 7.3/9014	
Halides, Extractable Organic		— 9020B	— EPA 600/4/84-008
Halides, Total		— 9020B	— EPA 600/4/84-008
EP Toxicity		— 1310A	
Flash Point		— 1010	
Ignitability		— 1010	
Oil & Grease		— 9071A	
Carbon, Total Organic		— 9060	— Lloyd Kahn (mod)
Oxygen Bomb Prep for Anions ___ D240-87(mod)		— 5050	
Petroleum Hydrocarbons, Total Recoverable		— 9071	— EPA 418.1
pH, Soil		— 9045C	
Sulfide, Reactive		— Section 7.3/9030B	
Sulfide		— 9030B(mod)	
Specific Gravity	— D1429-76C/	— D5057-90	
Sulfur, Total		— 9056	
Synthetic Preparation Leach		— 1312	
Paint Filter		— 9095A	
Other:	Method:		
Other:	Method		

Lionville Laboratory Incorporated

METHOD REFERENCES AND DATA QUALIFIERS

DATA QUALIFIERS

- U = Indicates that the parameter was not detected at or above the reported limit. The associated numerical value is the sample detection limit.
- * = Indicates that the original sample result is greater than 4x the spike amount added.

ABBREVIATIONS

- MB = Method or Preparation Blank.
MS = Matrix Spike.
MSD = Matrix Spike Duplicate.
REP = Sample Replicate
LC = Laboratory Control Sample.
NC = Not calculated.

A suffix of -R, -S, or -T following these codes indicate a replicate, spike or sample duplicate analysis respectively.

ANALYTICAL WET CHEMISTRY METHODS

1. ASTM Standard Methods.
2. USEPA Methods for Chemical Analysis of Water and Wastes (USEPA 600/4-79-020).
3. Test Methods for Evaluating Solid Waste (USEPA SW-846).
 - a. Standard Methods for the Examination of Water and Waste, 16 ed, (1983).
 - b. Standard Methods for the Examination of Water and Waste, 17 ed, (1989)/18ed (1992).
 - c. Method of Soil Analysis, Part 1, Physical and Mineralogical Methods, 2nd ed, (1986).
 - d. Method of Soil Analysis, Part 2, Chemical and Microbiological Properties, Am. Soc. Agron., Madison, WI (1965).
 - e. USEPA Contract Laboratory Program, Statement of Work for Inorganic Analysis.
 - f. Code of Federal Regulations.

Lionville Laboratory, Inc.

INORGANICS DATA SUMMARY REPORT 11/12/01

CLIENT: TNUHANFORD B99-093 H1574

LVL LOT #: Q110L236

WORK ORDER: 11343-606-001-9999-00

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
*****	*****	*****	*****	*****	*****	*****
-001	B13CB8	% Moisture	8.9	%	0.01	1.0
		% Solids	91.1	%	0.01	1.0
-002	B13CB9	% Moisture	24.6	%	0.01	1.0
		% Solids	75.4	%	0.01	1.0
-003	B13CC0	% Moisture	28.2	%	0.01	1.0
		% Solids	71.8	%	0.01	1.0
-004	B13CC1	% Moisture	14.4	%	0.01	1.0
		% Solids	85.6	%	0.01	1.0
-005	B13CC2	% Moisture	20.4	%	0.01	1.0
		% Solids	79.6	%	0.01	1.0
-006	B13CC3	% Moisture	26.8	%	0.01	1.0
		% Solids	73.2	%	0.01	1.0

Lionville Laboratory, Inc.

INORGANICS PRECISION REPORT 11/12/01

CLIENT: TNUHANFORD B99-093 H1574

LVL LOT #: 0110L236

WORK ORDER: 11343-606-001-9999-00

SAMPLE	SITE ID	ANALYTE	INITIAL RESULT	REPLICATE	RPD	DILUTION FACTOR (REF)
-----	-----	-----	-----	-----	-----	-----
-001REP	B13CB8	% Solids	91.1	90.8	0.41	1.0

01104236

[illegible]

SAF B99-093
Run Matrix Qc

DATE/REVISIONS:

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

Lionville Laboratory Use Only

Samples were:

1) Shipped ☒ or
Hand Delivered ☐
Airbill # Out Betel

2) Ambient or Cooled

3) Received in Good Condition ☒ or N

4) Samples Properly Preserved ☒ or N

5) Received Within Holding Times ☒ or N

Tamper Resistant Seal was:

1) Present on Outer Package ☒ or N

2) Unbroken on Outer Package ☒ or N

3) Present on Sample ☒ or N

4) Unbroken on Sample ☒ or N

COC Record Present Upon Sample Rec'l ☒ or N

Cooler Temp. 1.3 °C

Relinquished by FedEx	Received by J. Hwang	Date 10-31-01	Time 0925
-----------------------------	----------------------------	------------------	--------------

Relinquished	Received by	Date	Time
COMPOSITE WASTE		ORIGINAL	
		REWRITTEN	

Discrepancies Between
Samples Labels and
COC Record? Y or **N**
NOTES:

Bechtel Hanford Inc.			CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST					B99-093-35		Page 1 of 1					
Collector R Fahlberg			Company Contact Virginia Rohay		Telephone No. 372-9100		Project Coordinator TRENT, SJ		Price Code 9N		Data Turnaround 45 Days				
Project Designation 200-ZP-2 Passive Soil Vapor Extraction - Other Solid			Sampling Location 200 West		SAF No. B99-093		Air Quality <input type="checkbox"/>								
Ice Chest No. ERC-96-018			Field Logbook No. EL 1517-2		COA R20ZP2DP60		Method of Shipment Federal Express								
Shipped To TM/RECRA			Offsite Property No. A020019		Bill of Lading/Air Bill No. 42357454-8409										
POSSIBLE SAMPLE HAZARDS/REMARKS Special Handling and/or Storage			Preservation		Cool 4C										
			Type of Container		aG										
			No. of Container(s)		1										
			Volume		250mL										
SAMPLE ANALYSIS					VOA - 8260A (TCL) (Carbon tetrachloride); Moisture Content - D2216		Samples stored in Ref. #2A at the 3728 Shipping Facility on 10/29/01. Collector not available to relinquish samples on 10/30/01 for shipment. RT 10-30-01								
Sample No.		Matrix *	Sample Date		Sample Time										
B13CB8		OTHER SOLID	10-29-01		1055		X								
B13CB9		OTHER SOLID	10-29-01		1108		X								
B13CC0		OTHER SOLID	10-29-01		1117		X								
B13CC1		OTHER SOLID	10-29-01		1131		X								
CHAIN OF POSSESSION															
Relinquished By/Removed From				Date/Time		Sign/Print Names		Received By/Stored In				Date/Time			
R Fahlberg				10-29-01 1400		R Fahlberg		3728 bld				10-29-01 1400			
Relinquished By/Removed From				Date/Time		Sign/Print Names		Received By/Stored In				Date/Time			
R Fahlberg				10-30-01 0900		R Fahlberg		3728 bld				10-30-01 0900			
Relinquished By/Removed From				Date/Time		Sign/Print Names		Received By/Stored In				Date/Time			
R Fahlberg				10-30-01 0900		R Fahlberg		3728 bld				10-30-01 0900			
Relinquished By/Removed From				Date/Time		Sign/Print Names		Received By/Stored In				Date/Time			
R Fahlberg				10-31-01 0925		R Fahlberg		3728 bld				10-31-01 0925			
Relinquished By/Removed From				Date/Time		Sign/Print Names		Received By/Stored In				Date/Time			
R Fahlberg				10-31-01 0925		R Fahlberg		3728 bld				10-31-01 0925			
Relinquished By/Removed From				Date/Time		Sign/Print Names		Received By/Stored In				Date/Time			
R Fahlberg				10-31-01 0925		R Fahlberg		3728 bld				10-31-01 0925			
LABORATORY SECTION		Received By										Title		Date/Time	
FINAL SAMPLE DISPOSITION		Disposal Method										Disposed By		Date/Time	

01106236

Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				B99-093-36		Page 1 of 1	
Collector R Fahlberg		Company Contact Virginia Rohay		Telephone No. 372-9100		Project Coordinator TRENT, SJ		Price Code 9N Data Turnaround 45 Days	
Project Designation 200-ZP-2 Passive Soil Vapor Extraction - Other Solid		Sampling Location 200 West		SAF No. B99-093		Air Quality <input type="checkbox"/>			
Ice Chest No. ERC 96.018		Field Logbook No. EL 1517-2		COA R20ZP2DP60		Method of Shipment Federal Express			
Shipped To TMA(RECRA)		Offsite Property No. A020019		Bill of Lading/Air Bill No. 42367954-8409					
POSSIBLE SAMPLE HAZARDS/REMARKS									
Special Handling and/or Storage				Preservation	Cool 4C				
				Type of Container	AG				
				No. of Container(s)	1				
				Volume	250mL				
SAMPLE ANALYSIS				VOA - R260A (TCL) (Carbon tetrachloride); Moisture Content - DZ216 Samples stored in Ref. # 2A at the 3728 Shipping Facility on 10/29/01. Collector not available to relinquish samples on 10/30/01 for shipment. RT 10.30.01					
Sample No.	Matrix *	Sample Date	Sample Time						
B13CC2	OTHER SOLID	10-29-01	1140	X					
B13CC3	OTHER SOLID	10-29-01	1154	X					
B13CC4	OTHER SOLID								
B13CC5	OTHER SOLID								
CHAIN OF POSSESSION				SPECIAL INSTRUCTIONS					
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		Matrix *	
R. Fahlberg		10-29-01 1400		Ref. 2-A		10-29-01 1400		S=Soil	
R. Fahlberg		10-30-01 0900		R. Fahlberg		10-30-01 0900		SR=Solid	
R. Fahlberg		10-30-01 0900		R. Fahlberg		10-30-01 0900		SL=Sludge	
R. Fahlberg		10-30-01 0900		R. Fahlberg		10-30-01 0900		W=Water	
R. Fahlberg		10-30-01 0900		R. Fahlberg		10-30-01 0900		O=Oil	
R. Fahlberg		10-30-01 0900		R. Fahlberg		10-30-01 0900		A=Air	
R. Fahlberg		10-30-01 0900		R. Fahlberg		10-30-01 0900		DS=Drum Solids	
R. Fahlberg		10-30-01 0900		R. Fahlberg		10-30-01 0900		DL=Drum Liquids	
R. Fahlberg		10-30-01 0900		R. Fahlberg		10-30-01 0900		T=Time	
R. Fahlberg		10-30-01 0900		R. Fahlberg		10-30-01 0900		W=Wipe	
R. Fahlberg		10-30-01 0900		R. Fahlberg		10-30-01 0900		L=Liquid	
R. Fahlberg		10-30-01 0900		R. Fahlberg		10-30-01 0900		V=Vegetation	
R. Fahlberg		10-30-01 0900		R. Fahlberg		10-30-01 0900		X=Other	
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
R. Fahlberg		10-31-01 0925		R. Fahlberg		10-31-01 0925			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
R. Fahlberg		10-31-01 0925		R. Fahlberg		10-31-01 0925			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
R. Fahlberg		10-31-01 0925		R. Fahlberg		10-31-01 0925			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
R. Fahlberg		10-31-01 0925		R. Fahlberg		10-31-01 0925			
LABORATORY SECTION		Received By		Title		Date/Time			
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time			

February 12, 1999

Figure 1. Sample Check-in List

Date/Time Received: 10-31-01 0925SDG#: 01106236

Work Order Number: _____

SAF# B99-093Shipping Container ID: ERC-96-018Chain of Custody # B99-093-35

1. Custody Seals on shipping container intact? Yes ☒ No ☐
2. Custody Seals dated and signed? Yes ☒ No ☐
3. Chain-of-Custody record present? Yes ☒ No ☐
4. Cooler temperature 1.3
5. Vermiculite/packing materials is Wet ☐ Dry ☒
6. Number of samples in shipping container: 6
7. Sample holding times exceeded? Yes ☐ No ☒

8. Samples have:

 tape hazard labels ✓ custody seals appropriate sample labels

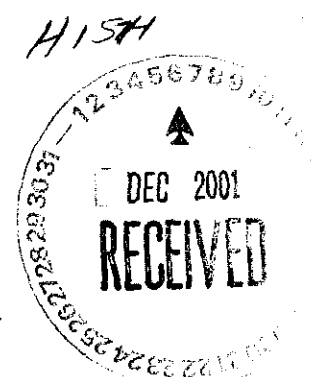
9. Samples are:

 ✓ in good condition leaking broken have air bubbles10. Were any anomalies identified in sample receipt? Yes ☐ No ☒

11. Description of anomalies (include sample numbers): _____

Sample Custodian/Laboratory: Field Station Date: 10-31-01

Telephoned to: _____ On _____ By _____



Lionville Laboratory, Inc.
VOA ANALYTICAL DATA PACKAGE FOR
TNUHANFORD B99-093 H1574

DATE RECEIVED: 10/31/01

LVL LOT # :0110L236

CLIENT ID	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS	
B13CB8	001	M1	S	01LVG048	10/29/01	N/A	11/09/01
B13CB8	001 MS	M1	S	01LVG048	10/29/01	N/A	11/09/01
B13CB8	001 MSD	M1	S	01LVG048	10/29/01	N/A	11/09/01
B13CB9	002	M1	S	01LVG949	10/29/01	N/A	11/12/01
B13CC0	003	M1	S	01LVG048	10/29/01	N/A	11/09/01
B13CC1	004	M1	S	01LVG048	10/29/01	N/A	11/09/01
B13CC2	005	M1	S	01LVG949	10/29/01	N/A	11/12/01
B13CC3	006	M1	S	01LVG949	10/29/01	N/A	11/12/01

LAB QC:

VBLKAB	MB1	S	01LVG048	N/A	N/A	11/09/01
VBLKAB	MB1 BS	S	01LVG048	N/A	N/A	11/09/01
VBLKAH	MB1	S	01LVG949	N/A	N/A	11/12/01

aw
11-29-01



Client: TNU-HANFORD B99-093
LVL #: 0110L236
SDG/SAF #: H1574/B99-093

W.O. #: 11343-606-001-9999-00
Date Received: 10-31-2001


GC/MS VOLATILE

Six (6) soil samples were collected on 10-29-2001.

The samples and their associated QC samples were analyzed according to criteria set forth in Lionville Laboratory OPs based on SW 846 Method 8260B for client specified Volatile target compound Carbon Tetrachloride on 11-09,12-2001.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analyses:

1. The cooler temperature upon receipt has been recorded on the chain-of-custody.
2. Samples were analyzed within required holding time.
3. Non-target compounds were not reported.
4. All samples required a medium level analysis due to high levels of the target compound.
5. One (1) of thirty-three (33) surrogate recoveries was outside EPA QC limits. The analysis of associated matrix spike samples fulfills the reanalysis requirement.
6. All matrix spike recoveries were within EPA QC limits.
7. The blank spike recovery was within EPA QC limits.
8. "I certify that this sample data package is in compliance with SOW requirements, both technically and for completeness, other than the conditions detailed above. Release of the data contained in this hard-copy data package has been authorized by the Laboratory Manager or a designee, as verified by the following signature."


J. Michael Taylor
President
Lionville Laboratory Incorporated

12-4-01
Date

som\group\data\voa\tnu-hanford\0111-236.doc

The results presented in this report relate only to the analytical testing and conditions of the samples at receipt and during storage. All pages of this report are integral parts of the analytical data. Therefore, this report should only be reproduced in its entirety of 9 pages.

GLOSSARY OF VOA DATA

ABBREVIATIONS

BS	=	Indicates blank spike in which reagent grade water is spiked with the CLP matrix spike solutions and carried through all the steps in the method. Spike recoveries are reported.
BSD	=	Indicates blank spike duplicate.
MS	=	Indicates matrix spike.
MSD	=	Indicates matrix spike duplicate.
DL	=	Suffix added to sample number to indicate that results are from a diluted analysis.
NA	=	Not Applicable.
DF	=	Dilution Factor.
NR	=	Not Required.
SP, Z	=	Indicates Spiked Compound.

GLOSSARY OF VOA DATA

DATA QUALIFIERS

- U** = Compound was analyzed for but not detected. The associated numerical value is the estimated sample quantitation limit which is included and corrected for dilution and percent moisture.
- J** = Indicates an estimated value. This flag is used under the following circumstances: 1) when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed; or 2) when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. For example, if the limit of detection is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.
- B** = This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination. This flag is also used for a TIC as well as for a positively identified TCL compound.
- E** = Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.
- D** = Identifies all compounds identified in an analysis at a secondary dilution factor.
- I** = Interference.
- NQ** = Result qualitatively confirmed but not able to quantify.
- N** = Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.
- X** = This flag is used for a TIC compound which is quantified relative to a response factor generated from a daily calibration standard (rather than quantified relative to the closest internal standard).
- Y** = Additional qualifiers used as required are explained in the case narrative.

TECHNICAL FLAGS FOR MANUAL INTEGRATION

Manual quan modifications or integrations are performed routinely to improve the data quality for a variety of technical reasons. Documentation of these modifications should be clear and concise. The following "flags" are used to indicate the technical reasons for quan modifications:

- MP** - Missed Peak: manually added peak not found by automatic quan program.
- PA** - Peak Assignment: quan report was changed to reflect correct peak assignment.
- RI** - Routine Integration: routine integrations are performed for some analytes that are consistently integrated improperly by the automatic integration programs. Examples are the dichlorobenzene isomers on the VOA packed column and benzo(b)fluoranthene/benzo(k)fluoranthene which are poorly resolved on the BNA column.
- SP** - Split Peak: the automatic integration improperly split the peak; a manual integration was performed to get the correct area.
- CB** - Coelution/Background: peak was manually integrated to eliminate contribution from coeluting compounds, background signal, or other interference.
- PI** - Proper Integration: a peak with poor or inconsistent integration (e.g., excessive tail) was properly integrated manually.

Volatiles By GC/MS, Special List

2

Client: TNUHANFORD B99-093 H1574 Work Order: 11343606001 Page: 1a

Cust ID:		B13CC2		B13CC3		VBLKAB		VBLKAB BS		VBLKAH	
Sample Information	RFW#:	005		006		01LVG048-MB1		01LVG048-MB1		01LVG949-MB1	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	D.F.:	19.5		200		2.00		2.00		2.00	
	Units:	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
	Level:	MED		MED		MED		MED		MED	
1,2-Dichloroethane-d4		99	%	98	%	97	%	100	%	99	%
Surrogate Toluene-d8		94	%	100	%	100	%	100	%	97	%
Recovery Bromofluorobenzene		90	%	93	%	91	%	90	%	93	%
=====fl=====fl=====fl=====fl=====fl=====fl=====fl=====											
Carbon Tetrachloride		140000		1900000		620 U		115 %		620 U	

*= Outside of EPA CLP OC limits.



FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Client TNU-HANFAS SAF B99-093

Est. Final Proj. Sampling Date _____

Project # 11343-606-001-9999-00

Project Contact/Phone # _____

Lionville Laboratory Project Manager 05QC SPEC Del STD TAT 30 daysDate Rec'd 10-31-01Date Due 11-30-01

Refrigerator # _____

#/Type Container

Liquid

Solid

Volume

Liquid

Solid

Preservatives _____

ANALYSES
REQUESTED

ORGANIC

VOA

BNA

Pest/

PCB

Herb

Methyl

INORG

Metal

N

MATRIX
CODES:

S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum
DL - Drum
L - Liquids
EP/CLIP
Leachate
WI - Wipe
X - Other
F - Fish

Lab
ID

Client ID/Description

Matrix
QC
Chosen
(✓)

MS MSD

Matrix

Date
CollectedTime
Collected

0624X

Lionville Laboratory Use Only

1% MS

001 B13CB8

002 B9

003 C0

004 C1

005 C2

006 C3

1059-01 1055

1108

1117

1131

1140

1154

Special Instructions:

SAF B99-093

Run Matrix QC

DATE/REVISIONS:

1.

2.

3.

4.

5.

6.

Relinquished
byReceived
by

Date

Time

FedEx

V. Fleming

10-31-01

0925

Relinquished

COMPOSITE
WASTEReceived
by

Date

Time

ORIGINAL
REWRITTEN

Discrepancies Between
Samples Labels and
COC Record? Y or N

NOTES:

Lionville Laboratory Use Only

Samples were:

1) Shipped _____ or
Hand Delivered _____

Allyl # Substrate

2) Ambient or Chilled

3) Received in Good
Condition Y or N

4) Samples
Properly Preserved Y or N

5) Received Within
Holding Times Y or N

Tamper Resistant Seal was:

1) Present on Outer
Package Y or N

2) Unbroken on Outer
Package Y or N

3) Present on Sample
Y or N

4) Unbroken on
Sample Y or N

COC Record Present
Upon Sample Rec'd Y or N

Cooler
Temp. 1.3 °C

0110 C 236

Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				B99-093-35		Page 1 of 1	
Collector R Fahlberg		Company Contact Virginia Rohay		Telephone No. 372-9100		Project Coordinator TRENT, SJ		Price Code 9N Data Turnaround 45 Days	
Project Designation 200-ZP-2 Passive Soil Vapor Extraction - Other Solid		Sampling Location 200 West		SAF No. B99-093		Air Quality <input type="checkbox"/>			
Ice Chest No. ERC-96-018		Field Logbook No. EL 1517-2		COA R20ZP2DP60		Method of Shipment Federal Express			
Shipped To TM/RECRA		Offsite Property No. A020019		Bill of Lading/Air Bill of Lading 42557954-8409					
POSSIBLE SAMPLE HAZARDS/REMARKS				Preservation Cool 4C					
Special Handling and/or Storage				Type of Container aG					
				No. of Container(s) 1					
				Volume 250mL					
SAMPLE ANALYSIS				VOA - 8260A (TCL) (Carbon tetrachloride); Moisture Content - D2116		Samples stored in Ref. #2A at the 3728 Shipping Facility on 10/29/01. Collector not available to relinquish samples on 10/30/01 for shipment. RT 10:30:01			
Sample No.	Matrix *	Sample Date	Sample Time						
B13CB8	OTHER SOLID	10-29-01	1055	X					
B13CB9	OTHER SOLID	10-29-01	1108	X					
B13CC0	OTHER SOLID	10-29-01	1112	X					
B13CC1	OTHER SOLID	10-29-01	1131	X					
CHAIN OF POSSESSION				Sign/Print Names		SPECIAL INSTRUCTIONS			
Relinquished By/Removed From R. Fahlberg		Date/Time 10-29-01 1400		Received By/Stored In R. Fahlberg		Date/Time 10-29-01 1400		<p>** Laboratory may use medium level preparation for VOA. They are to report any other halogenated compounds found.</p> <p>** Laboratory must include the % Moisture data as part of all hard copy reports.</p> <p>Samples are not originate in radiological controlled area. No total activity associated with sample/samples. RT 10:30:01</p>	
Relinquished By/Removed From R. Fahlberg		Date/Time 10-30-01 0900		Received By/Stored In R. Fahlberg		Date/Time 10-30-01 0900			
Relinquished By/Removed From R. Fahlberg		Date/Time 10-30-01 0900		Received By/Stored In R. Fahlberg		Date/Time 10-30-01 0900			
Relinquished By/Removed From R. Fahlberg		Date/Time 10-31-01 0925		Received By/Stored In R. Fahlberg		Date/Time 10-31-01 0925			
Relinquished By/Removed From R. Fahlberg		Date/Time 10-31-01 0925		Received By/Stored In R. Fahlberg		Date/Time 10-31-01 0925			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
LABORATORY SECTION		Received By		Title		Date/Time			
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time			